The Rheinische Friedrich-Wilhelms-Universität Bonn is an international research university that offers a wide range of degree programs. With 200 years of history, about 33,000 students, over 6,000 employees, and an excellent domestic and international reputation, Bonn University is among Germany’s leading universities. It was awarded the status of a University of Excellence in 2019.

The Institute of Geodesy and Geoinformation, Chair "Space Geodetic Techniques", is looking for a temporary position for a period of 4 years

**Research Assistant, PhD student (75%)**

The position is part of the research group "FOR 5456 Clock Metrology: TIME as a new variable in geodesy", which is funded by the German Research Foundation (DFG). The overall goal of the research group is to determine improved geodetic reference frames from an innovative combination of the space geodetic techniques based on novel clock technologies. An improvement of geodetic reference frames is currently required for an accurate and reliable Earth system monitoring, especially in times of climate change, according to the goals of the Global Geodetic Observing System (GGOS). This topic is of high scientific and societal relevance. The interdisciplinarity of the research group between physics and geodesy enables innovative and exciting tasks of the position.

**Your tasks:**
- Collaboration in the project P9 “Novel clock technologies for combination on ground and in space: real data and simulation” with DGFI-TUM and within the research group,
- Simulation studies of all four space geodetic techniques (DORIS, GNSS, SLR, VLBI) on the ground and on dedicated satellites,
- Development of combination strategies through new clock technologies (common target, common clock),
- Further development of the software EPOS-OC,
- Analysis and evaluation of the results with regard to the GGOS objectives,
- Preparation and presentation of the results in project meetings, conferences and in scientific journals.

**Your profile:**
- University degree (MSc, Diploma) in geodesy or a related field,
- Knowledge of space geodetic techniques and reference frames,
- Programming skills, preferably FORTRAN,
- Knowledge of scientific software packages and Unix/Linux operating systems is an advantage,
- Very good knowledge of English, both written and spoken,
- Ability and willingness to work in a multidisciplinary and international team with appropriate communication skills,
- High motivation as well as a structured and independent way of working.

**We offer:**
- a varied and challenging position with one of the biggest employers in the area,
- participation in the university-wide pension system (VBL),
- access to the extensive university sports program,
- an excellent transport infrastructure with the opportunity to obtain, affordable parking,
- a salary based on the 13 TV-L scale.
The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. It aims to increase the proportion of women in areas where women are under-represented and to promote their careers in particular. It therefore urges women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome.

Inquiries and applications (letter of motivation, CV, list of publications and similar activities, certificates) should be sent by **October 31st 2023** to Prof. Dr. Susanne Glaser, University of Bonn, Institute of Geodesy and Geoinformation (sglaser@uni-bonn.de) with the **application code 92/23/3.202**. Before sending your application, please combine and convert all of your documents into one PDF file.